

TO BOTANISTS.

I take pleasure in sending these lists of interesting plants to the Botanists of the U. S. and of Europe.

The same care has been taken to keep the present collection up to the standard of that of 1878, in point of quality; and in quantity much more material has been added to make the sets fully equal to those of our best collectors. To those who have secured my large Colorado collection of 1878 these plants will prove valuable additions. The 150 additional species of this year will bring the whole Colorado list up to 1100 species. To these I now add over 500 species of Utah plants. Both lists (of 1879) contain nearly 15 new species and about 150 not reported from those sections before.

I have left but two full sets of the Colorado collection of 1878, containing 800 species. The Utah plants are put up in sets of 400 species, and the additional Colorado plants in sets of about 100 species.

All plants STARRED are not in the sets, from lack of enough material, there being from 1 to 10 specimens each. Of these as well as the rest botanists can make selections, and their wants will be supplied as far as possible.

All specimens are first-class, except those otherwise noted in the list. It is probable that most of the doubtful plants will prove to be new species. Prof. Watson has not yet reported on the plants sent him, and therefore some are still in doubt. But notice will be given if corrections are made. I have followed the latest and best authorities in the arrangement of species in their natural order.

The additional Colorado species were secured during May, June, and a part of July. The Utah plants between July 18th and Sept. 1st. I am very greatly indebted for the unusually large and interesting list of Utah and Colorado plants to the courtesy and generosity of the Supt. of the Union Pacific R. R., to Mr. A. A. Butt Genl. Ticket Agt. of the Colorado Central R. R., to John Risley of the D. & R. G. R. R., to Mr. Sharp Supt. of the Utah Central and Utah Southern R. R., and to J. G. Kennedy and G. M. Young of the Wahatch and Bingham Canon R. R. Had it not been for the interest which the managers of these railroads take in the exploration and development of the far West, its natural resources would still be, to the world at large, unknown and valueless. And I am glad to bear testimony to the liberality which they are ever ready to extend to scientists seeking to make known the resources of the West.

It is my intention to give another full season to the elaboration of the plants of the little known section of southern Utah; and I expect to add 1000 species to the present Utah list. Hoping that these lists will interest you,

I am respectfully yours,

MARCUS E. JONES, A. M.

Grinnell, Poweshiek Co., Iowa.

FLORA OF UTAH. First Fascicle.

COLLECTED BY MARCUS E. JONES, A. M.

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|---|--|--|
| 1351 Clematis Douglasii, Hooker.
(Fruit.) | 1431 Capsella Bursa-Pastoris,
[Moench.] | 1347 Trifolium involueratum,
[Willd.] |
| 1350 Anemone multifida, DC.
(Fruit.) | 1215 Thlaspi alpestre, L. | 1046 pauciflorum, Nutt. |
| 1191 Thalictrum Fendleri, Eng. | 1430 Lepidium intermedium,
[Gray.] | 1010 Melilotus alba, Lam. |
| 1025 Ranunculus Cymbalaria, Ph. | 1270 montanum, Nutt., var. al-
pinum, Watson. | 1031 Medicago sativa, L. |
| 1104 aloncus, Gray. | 1316 Cleome integrifolia, T. & G. | 1440 denticulata, Willd. |
| 1130 affinis, R. Br., var. leiocar-
pus, Trautv. | 1364 Viola palustris, L. | 1035 lupulina, L. |
| 1298 maeranthus, Scheele. | 1359 Saponaria Vaccaria, L. | 1368 Astragalus Canadensis, L. |
| 1348 Aquilegia flavescens, Watson. | 1360 Sium acutif. L. | 1443 Utahensis, T. & G. |
| 1349 formosa, Fisch. = Calceola | 1434 Menziesii, Hooker. | 1210 (Undescribed. New?) |
| 1212 caerulea, James. | 1120 Douglasii, Hooker. | 1127 Kentrophyta, Gray. |
| 1154 Delphinium elatum, L. var. (?)
occidentale, Watson. | 1372 Lychnis Ajanensis, Regel. ? = Silene | 1441 Vicia micrantha, Nutt. |
| 1175 Aconitum Fischeri, Reich. | 1361 Drummondii, Watson. | 1445 Lathyrus polymorphus, Nutt. |
| 1429 Actaea spicata, L., var. argu-
ta, Torrey. (Fruit.) | 1279 Stellaria umbellata, Turcz. | 1447 Prunus demissa, Walpers.
(Fruit.) |
| 1084 Berberis repens, Lindley.
(Fruit.) | 1096 humifusa, Rottb. & L. | 1446 Virginiana, L. |
| 1197 Corydalis Caseana, Gray. | 1203 Kingii, Watson. | 1142 Spiraea discolor, Pursh, var.
dumosa, Watson. |
| 1357 Draba Caroliniana, Walt., var.
micrantha, Gray. | 1160 Jamiesii, Torrey. | 1301 caespitosa, Nutt. |
| 1211 aurea, Vahl. | 1433 Arcnaria verna, L. | 1448 Neillia Torreyi, Watson. |
| 1356 Douglasii, Gray. = alpina | 1432 Sagina Linnei, Presl. ? | 1449 Rubus strigosus, Mx. (Fruit.) |
| 1235 alpina, L., var. alga,
[Regel.] | 1088 Spergularia media, Presl. | 1450 Purshii tridentata, DC. (Fr.) |
| 1251 Cardamine cordifolia, Gray.
(Fruit.) | 1366 Portulaca oleraceae, L. | 1451 Cercocarpus ledifolius, Nutt.
(Fruit.) |
| 1177 Arabis Drummondii, Gray. | 1435 Malva rotundifolia, L. | 1452 Geum strictum, Ait. |
| 1248 Lyallii, Watson. | 1365 Sida leuca malvaeflora, Gray. | 1264 Rossii, Seringe. |
| 1358 Caulanthus hastatus, Watson. | 1015 Malvastrum coccineum, Gray. | 1370 Fragaria Virginiana, Ehrh.,
var. glauca, Watson. |
| 1355 Erysimum asperum, DC. | 1085 Sphaeraleuca acerifolia, Nutt. | 1108 Potentilla glandulosa, Lindl. |
| 1353 Brassica alba, Gray. | 1067 Sida hederacea, Torrey. | 1454 rivalis, Nutt., var. mille-
grana, Watson. |
| 1037 nigra, Benth. & Hook. | 1121 Linum perenne, L. | 1371 Pennsylvanica, L., var. strig-
osa, Pursh. |
| 1432 Barbara vulgaris, Br., var.
stricta, Gray. | 1112 Kingii, Watson. | 1227 gracilis, Dougl. ? |
| 1192 Sisymbrium incisum, Eng.,
var. filipes, Gray. | 1173 Geranium Richardsonii,
[Fisch. & Mey.] | 1453 Anserina, L. |
| 1117 var. Hartwegianum, Wat. | 1026 Erodium cicutarium, L'Her. | 202 frutescens, L. |
| 1236 Smelowskii calycina, C. A.
Meyer. | 1083 Pachystima Myrsinites, Raf. | 1237 Sibbaldia procumbens, L. |
| 1198 Nasturtium obtusum, Nutt. | 1437 Acer grandidentatum, Nutt. | 1113 Ivesia Gordonii, T. & G. |
| 1352 palustre, DC. = obtusum | 1436 glabrum, Torrey. (Fruit.) | 1231 New? Near to unguicu-
lata, Gray. |
| 1047 officinale, R. Br. | 1438 Negundo aceroides, Moench.
(Fruit.) | 1455 Rosa blanda, Ait. (?) |
| 1351 Vesicaria montana, Gray. | 1187 Lupinus parviflorus, Nutt. | 1369 Pirus sambucifolia, Cham. &
Sehl. |
| | 1439 laxiflorus, Dougl. = argenteus, L. | 1076 Crataegus rivularis, Nutt.
(Fruit.) |
| | 1439a argenteus, Pursh. = laxiflorus | 1373 Saxifraga caespitosa, L. |
| | 1441 Trifolium repens, L. | |
| | 1442 pratense, L. | |

*Plants marked with a star are not in the sets.

HARVARD UNIVERSITY HERBARIUM.

THE GIFT OF

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|-------|--|-------|------------------------------|-------|---|-------|---|-------|---|-------|--|
| 1172 | Saxifraga punctata, L. | 1379* | Solidago Canadensis, L. | 1174 | Senecio triangularis, Hooker. | 1051 | Castilleja minor, Gray. | 1171 | Salix desertorum, Rich.? | 1022 | Sporobolus asperifolius, (Vil-
la, N. & M.) |
| 1377* | Mitella trifida, Graham | 1191 | Aster canescens, Pursh. | 1388* | Arnica cordifolia, Hook., var. | 1139 | miniata, Dougl. | 1241 | arctica, Pallas, var. pet-
[var. And. | 1179 | Vilfa depauperata, Torrey,
[var. filiformis, Thurber. |
| 1376 | pentaandra, Hooker. | 1345 | var. | 1119 | latifolia, Bong. | 1401* | var. = <i>pubescens</i> Dougl. | | [Eng. | | |
| 1457* | Heuchera rubescens, Torrey.
(Fruit.) | 1308 | adscendens, Lindley. | 1528 | var. | 1400 | pallida, Kth., var. septen-
trionalis, Gray. | 1024 | Euphorbia glyptosperma,
[near to var. major, Moroug.
(ms.) | 1163 | Agrostis scabra, Willd. |
| 1458* | parvifolia, Nutt. (Fruit.) | 1226 | var. Parryi, Eaton. | 1128 | foliosa, Nutt. | | | 1135 | montana, Eng. | 1045 | exarata, Trin. |
| 1168 | Parnassia fimbriata, Banks. | 1180 | var. | 1238 | var. | 1115 | Orthocentrus Tolmiei, Hook.
& Arn. | 1300 | Juniperus communis, L., var.
humilis, Eng. (ms.)
(Pistillate.) | 1014 | verticillata, Villars. |
| 1214 | Jamesia Americana, T. & G. | 1531* | var. | 1167 | longifolia, Eaton. | 1403* | Cordylanthus laxiflorus, Gr. | | | 1008 | vulgaris, With. |
| 1374 | Ribes laestreu, Poir., var. mol-
le, Gray. (Fruit.) | 1522 | var. | 1529 | var. | 1399* | Pedicularis Groenlandica,
[Retz. | 1286 | Habenaria hyperborea, R. Br. | 1275 | vulgaris, With. depauperate |
| 1456* | cereum, Dougl. (Fruit.) | 1003 | Aster falcatus, Lindley. | 1107 | New species? (discoid.) = <i>angustifolia</i> | | | 1043 | Triglochin maritimum, L. | 1013 | Polypogon Monspeliensis,
[Desf. |
| 1110 | Sedum debile, Watson. | 1378 | Nuttallii, T. & G. | 1155 | New? (discoid.) = <i>pauciflorum</i> | 1487* | Verhena hastata, L. | 1071 | Sagittaria variabilis, Eng. | 1219 | Cinna arundinacea, L., var.
pendula, Gray. |
| 1258* | stenopetalum, Pursh. | 1123 | Kingii, Eaton. | 1252 | Cnicus edulis, Gray. | 1488 | bracteosa, Mx. | 1304 | Potamogeton gracilescens, L.
[near to var. major, Moroug.
(ms.) | 1420* | Calamagrostis Canadensis,
Mt. form. [Beauv. |
| 1141 | Zauschneria Californica,
[Presl. | 1385 | asperuginens, Eaton. | 1392* | Troximon glaucum, Nutt. | 1319 | Mentha piperita, L. | | | 1274 | stricta, Nutt. (not Trin.) |
| 1193 | Epilobium angustifolium, L. | 1189 | elegans, T. & G. | 1213 | aurantiacum, Hooker. | 1029 | Canadensis, L. | 1297 | rufescens, Schrad. | 1418* | Stipa viridula, Trin. |
| 1267 | coloratum, Muhl. | 1253* | var. Engelmanni, Eaton. | 1092 | Taraxacum Denis-Leonis,
[Desf. | 1066 | Lycopus lucidus, Turez., var.
Americanus, Gray. | 1053 | paniculatus, Pursh. | 1146 | var. (alpine form.) |
| 1103 | alpinum, L. | 1216 | glaucens, T. & G. | 1150 | Hieracium Scouleri, Hooker. | 1317 | sinnatus, Bth. | 1072 | Sparganium curycarpum,
[Eng. | 1089 | Spartina gracilis, Trin. |
| 1099 | originifolium, Lam. | 1332 | Brachyaetis frondosa, Ledeb. | 1478* | albiflorum, Hooker. | 1109 | Audibertia incana, Benth. | 1278 | minimum, Banks. | 1039 | Daelylis glomerata, L. |
| 1268 | glaberrimum, Barbey, var.
latifolium, Barbey. | 1382* | Townsendia scapigera, Eaton. | 1480* | Lactuca sativa, L. | 1152 | Lophanthus urticifolius,
[Benth. | 1499* | Smilacina amplexicaulis,
[Nutt. | 1594 | Melica poaeoides, Nutt. |
| 1309 | paniculatum, Nutt. | 1255 | Erigeron compositum, Pursh. | 1020 | pulehella, DC. | 1033 | Nepeta Cataria, L. | 1500* | stellata, Desf. | 1048 | airoides, Thurber. |
| 1148 | Gayophytum ramosissimum,
[T. & G. | 1207 | ursinum, Eaton. | 1324* | Sonchus oleraceus, L. | 1036 | Marrubium vulgare, L. | 1412* | Veratrum album, L. | 1005 | Brizopyrum spicatum, Hook. |
| 1249 | racemosum, T. & G., var. | 1234 | caespitosum, Nutt. | 1056 | asper, Villars. | 1032 | Leonurus Cardiac, L. | 1501* | Streptopus amplexifolius, DC. | 1034 | Poa annua, L. |
| 1052 | Oenothera biennis, L., var.
grandiflora, Lindl. | 1205 | ochroleucum, Nutt. | 1296 | Vaccinium caespitosum, Mx.
(Fruit.) | 1030 | Plantago major, L. | 1288 | Luzula spadiacea, DC., var.
[parviflora, Led. | 1262 | alpina, L. |
| 1459* | albicaulis, Nutt. | 1082 | stenophyllum, Eaton. | 1489* | Ledum glandulosum, Nutt.
(Mostly fruit.) | 1185 | ericae, Torrey. | 1413* | spicata, Desv. | 1514 | flexuosa, Wahl.? |
| 1460* | Gaura parviflora, Dougl. | 1057 | divergens, T. & G. | 1394* | Pyrola secunda, L. | 1337 | Abonia lucida , Torrey. | 1023 | Juncus Balticus, Benth., var.
montanus, Eng. | 1188 | arctica, R. Br. (scabrous
culms.) |
| 1276 | Ciraea Pacifica, Asch. & Mag. | 1161 | macranthum, Nutt. | 1481* | rotundifolia, L., var. incar-
nata, Hooker. (Fruit.) | 1143 | Eriogonum heracleoides,
[Nutt. | 1097 | Drummondii, E. Mey. | 1188a | arctica, R. Br.? |
| 1461* | Mentzelia dispersa, Watson. | 1136 | glabellum, Nutt. | 1158 | var. (rays white.) | 1411 | umbellatum, Torrey. | 1414* | tenuis, Willd. | 1532* | Andina, Nutt., var. |
| 1462* | leucicaulis, T. & G. | 1502 | var. (rays white.) | 1240 | var. | 1322 | racemosum, Nutt. | 14070 | bufonius, L. | 1531 | var. |
| 1006 | Sesuvium Portulacastrum, L. | 1208 | Antennaria dioica, Gaertn. | 1268 | var. | 1140 | Kingii, T. & G., var. laxi-
folium, T. & G. = <i>st.</i> | 1199 | longistylis, Torrey. | 1190 | var. (Called Atropis
Californica.) |
| 1028 | Echinocystis lobata, T. & G. | 1390 | var. rosea, Eaton. | 1320 | Gnaphalium Sprengelii,
[Hook. & Arn. | 1327 | var. = <i>viridula</i> Dougl. | 1592 | var. latifolius, Eng. | 1021 | tenuifolia, Nutt. |
| 1075 | Sium cicutifolium, Gmelin. | 1233 | palustre, Nutt. | 1320 | var. | 1530 | var. | 1061 | nodosus, L., var. mega- | | |

1492 *Rosinia americana*
1493 A. Gale - *R. americana*

1246* *Selaginella rupestris*, Spring.
1594* Isoetes.
1040* *Chara*.

FUNGI.

1124* *Puccinia aberrans*, Peck n. sp.
1521 *internixta*, Peck n. sp.
(Wyoming Terr.)

1151 *Uromyces excavatus*, DC.
1314 *Trichobasis Leguminosarum*,
[Link].
1525 *Ustilago urceolarum*, Tul.
1229 *Syntherisma*, Schw.
1426* *Uredo Filicum*, Desm.
1523* *Coleosporium minutum*, Bon.
1151 *Æcidium Euphorbiae*, Pers.

1131 *Æcidium Epilobii*, DC.
1521 *internixtum*, Peck n. sp.
(Wyoming Terr.)
1524* *Gilie*, Peck n. sp.
1425 *Sphaerotheca Castagnei*, Lev.
1295 *Erysiphe lamprocarpa*, Lev.
* *Dothidea*.

COLORADO FLORA. ADDITIONS, 1879.

947 *Anemone cylindrica*, Gray.
935 *Ranunculus aquatilis*, L.,
[var. *stagnatilis*, DC.
936 *Aquilegia chrysantha*, Gray.
1536* *Delphinium azureum*, Mx.
937 *Arabis perfoliata*, Lam. [var.
938* *Helianthemum* — [var.?
939 *Lychnis Drummondii*, Wat.
940 *Hypericum Scouleri*, Hooker.
941 *Ampelopsis quinquefolia*, Mx.
The western variety.
942* *Ceanothus velutinus*, Dougl.
943 *Lupinus argenteus*, Pursh.
944* *Trifolium pratense*, L.
945* *repens*, L.
946 *Medicago sativa*, L.
872 *Petalostemon candidus*, Mx.
934 *Psoralea hypogaea*, Nutt.
614 *Amorpha fruticosa*, Nutt.
869 *Astragalus flexuosus*, Dougl.
948* *Canadensis*, L.
949 *Pattersoni*, Gray.
950 *Glycyrrhiza lepidota*, Nutt.
951 *Vicia truncata*, Nutt.
(=linearis?)
912 *micrantha*, Nutt. [Hooker.
914 *Neillia opulifolia*, Benth. &
952* *Genn Rossii*, Seringe, var.
[molle, T. & G.
953 *Potentilla arguta*, Pursh.
303* *gracilis*, Dougl.
954* *Pennsylvanica*, L., var.
1537* *Crataegus rivularis*, Nutt.
955 *Saxifraga Jamesii*, Torrey.
956* *Euthera caespitosa*, Nutt.
(Caulescent form.)
957 *breviflora*, T. & G.
635 *Centa maculata*, L.
958* *Berula angustifolia*, Koch.
960* *Liatris scariosa*, Willd.?
(Probably distinct.)
959* *Kuhnia eupatorioides*, L.
1538* *Aster multiflorus*, Ait., var.
commutatus, Gray.
961 *Erigeron canum*, Gray.
962* *annuum*, Pers.
1542* *Parthenium incanum*, H. B.
1543 *Heliopsis levis*, Pers. [K.?
599* *Lepachys columnaris*, T. & G.
963* var. *Tagetes*, Gray.
964 *Thelesperma gracile*, Gray.
809 *Hymenopappus tenuifolius*,
[Pursh.
295 *Cnicus undulatus*, Gray.
965 var. *ochrocentrus*, Gr.
607 *Lygodesmia juncea*, Don.
966* *Sonchus asper*, Villars.
967 *Lysimachia ciliata*, L.
593 *Asclepias speciosa*, Torrey.
987* *Jancsii*, Torrey.
988* *incarnata*, L.
989 *tuberosa*, L.

990 *Asclepias Hallii*, Gray.
992* *Acerates auriculatus*, Eng.
968 *Gilia congesta*, Hooker, var.
erebrifolia, Gray.
971* *Eritrichium Californicum*,
DC., var. *subglochidatum*,
970 *leicocarpum*, Wats. [Gray.
972 *glomeratum*, DC.
973 *Pentstemon glaber*, Pursh.
[var. *cyananthus*, Gray.
974 *gracilis*, Dougl.
975 *Gratiola Virginiana*, L.
848 *Pedicularis procera*, Gray.
976 *Hedeoma Drummondii*, Gray.
616 *hispida*, Pursh.
291 *Stachys cordata*, Riddell.
977* *Mirabilis oxybaphoides*, Gray.
978 *Oxybaphus hirsutus*, Sweet.
979 *nyctagineus*, Sweet. [Torr.
980* *Sarcobatus vermiculatus*,
981 *Sueda fruticosa*, Forsk., var.
982* *Rumex salicifolius*, Weinm.
871 *Polygonum erectum*, Watson.
984* *lapathifolium*, Ait., var. *in-*
canum, Koch.
1538* *Bistorta*, L., var. *linearif-*
olium, Watson.
985 *amphibium*, L., var. *aquat-*
ium, Willd.
986* *Pennsylvanicum*, L.
991 *Argythamnia humilis*, Mull.
993* *Urtica urens*, L.
994 *Pinus edulis*, Eng.
995* *Abies concolor*, Lindley.
996* *Alisma Plantago*, L., var.
[Americana, Gray.
997 *Smilax herbacea*, L., var. *in-*
odora.
1539* *Habenaria dilatata*, Gray.
998* *Yucca angustifolia*, Pursh.
(Fls. and fruit, no leaves.)
999* *Luzula parviflora*, DC., var.
congesta, Eng. (ms.)
1000* *Juncus nodosus*, L., var. (near
to typical form.)
969 *tenuis*, Willd., var.
983 *Cyperus filiculmis*, Vahl.
812 *Scirpus pungens*, Vahl.
1540 *atrovirens*, Muhl.
1541* *Elyna spicata*, Schrad.
1544* *Carex Hallii*, Olney.
1590* *affinis*, R. Br.
1596 *bromoides*, Schk.
1582* *siccata*, Dewey.
303 *marida*, Boott.
263 *Hoodii*, Boott.
105 *disticha*, Huds.
248* *muricata*, L.
1583 var. *gracilis*, Boott.
1584 *stellulata*, L., var. *scirpo-*
ides, Carey.

1585 *Carex Liddoni*, Boott.
1597 *scoparia*, Schk. [nor, Dew.
1598 *straminea*, Schk., var. *mi-*
1586* *Jamesii*, Torr. (Typ. form.
1587 " var. *not C. Nebras-*
1588 *verticillata*, Btt. [kensis.)
1595 *stricta*, Lam.
1589* *flava*, L., var. *Oederi*, W. Btt.
1546 *Sporobolus asperifolius*, (Vil-
fa, N. & M.)
1545 *Muhlenbergia gracilis*, Gray.
807 New species? near to
[glomerata.
65 *Oryzopsis asperifolia*, Mx.
1547 *Stipa pennata*, L., var. *Amer-*
icana, Vasey.
1548 *Aristida purpurea*, Nutt., var.
Fendleriana, Vasey.
1549 *Leptocloa fascicularis*, Gray.
1550* *Melica bulbosa*, Geyer.
754 *Glyceria airoides*, Thurber.
1551 *Poa*. New species?
1552* *Bromus secalinus*, L.
1553 *Triticum repens*, L., var. *com-*
paetum, Vasey.
1578 *repens*, L. Double spike-
1579 *violaceum*, Hornem. [lts.
1580 — Between *repens* and
[caninum.
1581 *Elymus Sibiricus*, L.
1554 *Avena striata*, Mx.
1555 *Phalaris arundinacea*, L.
897 *Equisetum pratense*, Ehrh.
1556* *hyemale*, L.

FUNGI.

1560 *Puccinia Physalidis*, Peck
[n. sp.
1561 *Uromyces excavatus*, DC.
1562 *hyalinus*, Peck.
1577* *Lupini*, B. & G. [Link.
1563 *Trichobasis Leguminosarum*,
1564 *gaurinum*, Peck n. sp.
1565 *Sorosporium Astragali*,
[Peck n. sp.
1574* *atrum*, Peck n. sp.
1566* *Coleosporium minutum*, Bon.
1567 *Æcidium Euphorbiae*, Pers.
1568 *hemisphaerium*, Peck.
1569 *gaurina*, Peck n. sp.
1570 *Psoralee*, Peck. [Lev.
1572 *Microsphaeria holosericea*,
1573 *Sphaerella megastoma*,
Peck n. sp.
1575 *Erysiphe communis*?
1576 *Melampsora Hartigii*, Thum.

KANSAS PLANTS.

1557* *Viola pubescens*, Ait., var.
erioearpa, Nutt. (Fruit.)
1558 *Æsculus arguta*, Buckley.
1559 *Astragalus mollissimus*, Torr.

CORRECTIONS TO LIST OF 1878.

Aster multiflorus=var. *commutatus*, Gray, in part.—*Ranunculus aq.*, var. *stagn.*=var. *trichophyllus*, Chaix.—*Arabis hirsuta*=
perfoliata, L., in part.—*Lychnis Drum.*=*Silene antirrhina*, L.—*Scscli Hallii*=*Cymopterus* (?) *anisatus*, Gray.—No. 110=Thas-
pium montanum, Gray.—*Gentiana Am.*=var. *acuta*, Eng.—*Polemonium humile*=var. *pulehellum*, Gray.—*Onosmodium Carol.*=
molle, Mx.—*Aristida purp.*, var. *Fendl.*=var. *longiseta*, Vasey, (in part.)—*Stipa spartea*=*comata*, Trin.—*Aira danth.*=*caespit-*
osa, L., var. *arctica*, Vasey.—No. 600=P. *rufescens*, Schrad.—No. 734=P. *pauciflorus*, Pursh.—*Potamogeton Vaseyi*=*pectinatus*,
L.—*Delphinium Menziesii*=*bicolor*, Nutt.—*Abronia cycloptera*=*micrantha*, Torrey.—*Berberis Aquifolium*=*repens*, Lindley.—
Iris tenax?=Missouriensis, Nutt.—*Rumex long.*=*occidentalis*, Watson.—*Zygadenus glaucus*=*elegans*, Pursh. Changes in
synonyms are omitted.

TO BOTANISTS.

In sending out this list of Utah plants, I am able to add a number of *new species* to those before reported. And I trust that this third list of species will be received with even more favor than its predecessors, for the number of new and desirable species is much larger than usual.

One-third of the collection was made at St. George, in southern Utah, from March 29th to April 14th. Quite a number of valuable plants were gathered on the way to Salt Lake City. An excursion was made in June to Frisco, where a large number of species were collected, and some new ones. During the Spring an almost complete collection was made of the plants peculiar to the valleys and foothills of Utah. I am indebted to the same gentlemen whose kindness I had occasion to mention last year, for railroad facilities; and especially to James Sharp, of the Utah Southern R. R. for such repeated courtesies as enabled me to add a number of new species to my list, and very many others of interest.

The sets of 1879 contain about 400 species; those of 1882, about 450 species; Colorado sets, 900 species. The *fungi*, containing a number of new species, will occupy a separate list.

It is my intention to spend the coming season in collecting through Utah, Nevada, California, and Arizona. Persons who desire live specimens should inform me at once.

MARCUS E. JONES, A. M.,
Salt Lake City, Utah, U. S. A.

FLORA OF UTAH. Second Fascicle.

COLLECTED BY MARCUS E. JONES, A. M.

1351	<i>Clematis Douglasii</i> , Hook.	(1352 is <i>N. obtusum</i> .)	1867	<i>Rhus glabra</i> , L.
1887	<i>alpina</i> , Mill., var. <i>Ochotensis</i> , Gray.	1846* <i>N. obtusum</i> , Nutt., var. <i>alpinum</i> , Watson.	1932	<i>Toxicodendron</i> , L.
1882	<i>verticillaris</i> , DC. (Fruit.)	1354 <i>Vesicaria montana</i> , Gray.	1608	<i>aromatica</i> , Ait., var. <i>trilobata</i> , Gray.
1607	<i>Anemone decapetala</i> , L.	1869* <i>alpina</i> , Nutt.	1934*	<i>Thermopsis montana</i> , Nutt.
1681*	<i>Myosurus aristatus</i> , Benth.	1730 <i>Camelina sativa</i> , Crantz.	1657	<i>Lupinus brevicaulis</i> , Watson.
1761	<i>Ranunculus aquatilis</i> , L., var. <i>trichophyllus</i> , Gray.	1627 <i>Capsella divaricata</i> , Walp.	1946	<i>parviflorus</i> , Nutt.
1715	<i>digitatus</i> , Hooker.	1431 <i>Bursa-pastoris</i> , Moench.	1956*	<i>laxiflorus</i> , Dougl.
1428*	<i>secleratus</i> , L.	1611 <i>Lepidium Wrightii</i> , Gray.	(1187 is <i>argenteus</i> and 1439 is the var. <i>decumbens</i> , fide Wat.)	
1701*	<i>adoneus</i> , Gray, var.	1821 <i>Lindense</i> , n. sp. = <i>integrifolium</i>	1935*	<i>Trifolium subcaulescens</i> , Gray.
1349*	<i>Aquilegia canadensis</i> , James. ("A form.")	1430 <i>intermedium</i> , Gray.	1933*	<i>Melilotus officinalis</i> , Willd.
1712	<i>Delphinium Menziesii</i> , DC.	1896 <i>montanum</i> , Nutt.	1833	<i>Psoralea lanceolata</i> , Pursh.
1696	<i>bicolor</i> , Nutt.	1636 <i>alyssoides</i> , Gray.	1858	<i>Glycyrrhiza lepidota</i> , Nutt.
1429	<i>Actaea spicata</i> , L., var. <i>arguta</i> , Torrey.	1665 <i>Fremontii</i> , Watson.	1813	<i>Astragalus diphysus</i> , Gray.
1084	<i>Berberis repens</i> , Lindley. (Flowers.)	1925 <i>Physaria didymocarpa</i> , Gray.	1807	<i>lentiginosus</i> , Dougl.
1605	<i>Argemone hispida</i> , Gray.	1810 <i>Newberryi</i> , Gray.	1939*	<i>Mortoni</i> , Nutt.
1658	<i>Eschscholtzia Californica</i> , Cham., var. <i>caespitosa</i> , Brewer.	1926* <i>Thysanocarpus curvipes</i> , Hk.	1620	<i>nothoxys</i> , Gray.
1716	<i>minutiflora</i> , Watson.	1735 <i>Cleome integrifolia</i> , T. & G. (White flowers.)	1940*	<i>atratus</i> , Watson.
1767*	<i>Dicentra uniflora</i> , Kellogg.	1796 <i>Jutea</i> , Hook.	1941*	<i>Pattersoni</i> , Gray.
1682	<i>Corydalis aurea</i> , Willd., var. <i>occidentalis</i> , Eng.	1749 <i>Viola cucullata</i> , Ait.	1938*	<i>humistratus</i> , Gray.
1734*	var. <i>curvisiliqua</i> , Eng.	1718 <i>canina</i> , L., var. <i>longipes</i> , Nuttallii, Pursh.	1633	<i>amphioxys</i> , Gray?
1683	<i>Draba nemorosa</i> , L.	1676 <i>Beckwithii</i> , T. & G., var.	1679	<i>iodanthus</i> , Watson.
1799*	<i>stenoloba</i> , Ledeb.	1676 <i>Saponaria Vaccaria</i> , L.	1725	<i>Beckwithii</i> , T. & G.
1632	<i>Arabis longirostris</i> , Watson.	1839 <i>Silene antirrhina</i> , L.	1743	<i>eriocarpus</i> , Watson.
1923*	var.	1431 <i>Menziesii</i> , Hook.	1945*	<i>traw-sp.</i>
2124	<i>perfoliata</i> , Lam.	1927* <i>Arenaria congesta</i> , Nutt.	1443	<i>Utahensis</i> , T. & G.
1879	<i>hirsuta</i> , Scop.	2123 <i>Fendleri</i> , Gray.	1781	<i>Geyeri</i> , Gray.
1755	<i>Lyallii</i> , Watson. (1248 is <i>A. Drum.</i> , var.)	1818 <i>capillaris</i> , Poir.	1797	<i>pictus</i> , var. <i>filifolius</i> , Gray.
1876	<i>Holboellii</i> , Hornem.	1203* <i>verna</i> , L., var. <i>hirta</i> , Watson.	1690	<i>Chamaeleuce</i> , Gray.
1650	<i>arcuata</i> , Gray.	1362 <i>Sagina Linnaei</i> , Presl.	1831	<i>juncus</i> , Gray.
1924*	var.	1638 <i>Claytonia perfoliata</i> , Donn.	1943*	—
1811	<i>Streptanthus cordatus</i> , Nutt.	1709 var.	1944*	—
1358	<i>Caulanthus hastatus</i> , Watson.	1706 <i>Caroliniana</i> , Mx., var. <i>sesilifolia</i> , Torr.	1942*	<i>procerus</i> , Gray. (?)
1841*	<i>Thelypodium sagittatum</i> . [Endl.]	1827 <i>Lewisia rediviva</i> , Pursh.	1210*	<i>campestris</i> , Gray.
1648	<i>new species?</i>	1928* <i>Hypericum Scouleri</i> , Hook.	1898	<i>Oxytropis campestris</i> , L., var. <i>viscida</i> , Watson.
1809	<i>Stanleya pinnatifida</i> , Nutt.	1435 <i>Malva rotundifolia</i> , L.	1744	<i>Hedysarum Mackenzii</i> , Rich.
1903	<i>Erysimum cheiranthoides</i> , L.	1015 <i>Malvastrum coccineum</i> , Gray.	1444	<i>Vicia Americana</i> , Muhl., var. <i>truncata</i> , Brewer.
1355*	<i>asperum</i> , DC.	1931 var.	1937	var. <i>linearis</i> , Watson.
1353	<i>Brassica alba</i> , Gray.	1628 <i>exile</i> , Gray.	1619	<i>exigua</i> , Gray.
1432	<i>Barbarea vulgaris</i> , R. Br., var. <i>striata</i> , Gray.	1085* <i>Spharalea acrifolia</i> , Nutt. (Very fine specimens.)	1740	<i>Lathyrus polyphyllus</i> , Nutt.
1612	<i>Sisymbrium canescens</i> , Nutt.	1660 <i>Emoryi</i> , Torr.	1445	<i>paluster</i> , L.
1845*	<i>Nasturtium palustre</i> , DC., var. <i>hispidum</i> , Fisch. & Mey.	1871 <i>Geranium incisum</i> , Nutt. (?)	1936	<i>polymorphus</i> , Nutt.
		1929* <i>Carolinianum</i> , L.	1700	<i>ornatus</i> , Nutt.?
		1930* <i>Erodium Texanum</i> , Gray?	1446	<i>Prunus demissa</i> , Walp.
		1603 <i>Ceanothus velutinus</i> , Dougl.	1630	<i>fasciculata</i> , Gray.
		1437 <i>Acer grandidentatum</i> , Nutt.	1448	<i>Neillia Torreyi</i> , Watson.
		1438 <i>Negundo aceroides</i> , Moench.	1380	<i>Rubus Nutkanus</i> , Mocino.
			1449	<i>strigosus</i> , Mx.
			1850	<i>leucodermis</i> , Dougl.

*Plants starred are not in the sets of the Second Fascicle.

HARVARD UNIVERSITY HERBARIUM.

THE GIFT OF

FUNGI

Cymopterus terebinthinus.
[T. & G.]

Fucciria mixta, Fekl.
Calcechorti, Peck n. sp.
phlogina, "
Troximonti, "
mirabilissima, "
Mertensiae, "
speta, Pl.
Ienesii, Peck n. sp.
Ferula, Peck n. sp.
Uromyces Trifolii, Fekl.
Psoralea, Peck n. sp.
Zygadeni, Peck n. sp.
apiculatus, Lev.

montanus, Nutt.
glauca, Nutt.
glomeratus, Raf.?
purpureus, Nutt.
longipes, Watson.
~~new species = Fendleri~~

Peucedanum simplex, Watson.
villosum, Nutt.
bicolor, Watson.
millefolium, Watson.
Newberryi, Watson.
Nevadense, Watson.

Ferula multifida, Gray.
Kelloggii ~~sp. n. = Kelloggii~~
Galium Aparine, L.
asprellum, Mx.
asprellum, Gray.
boreale, L. (Fruit hairy.)
Bloomeri, Gray.
multiflorum, Kellogg.

~~Chenopodium n. sp. = polydium~~
Plectritis congesta, DC.
Brickellia linifolia, Eaton.
California, Gray.
Chrysopsis villosa, Nutt., var.
foliosa, Eaton.

1944* Aplopappus linearifolius, DC.
1804 armerioides, Gray.
1973* var.
1975* Bigelovia Douglasii, Gray, var.
puberula, Gray.

1469* Solidago pumila, T. & G.
1082* Aster arenarioides, Eaton.
1980* var.
1981* "
1806 ericifolius, Rothrock.
1886 elegans, T. & G.
1189* var. Engelmanni, Eaton.
(1253 is a form.)

1791 Townsendia Arizonica, Gray.
1823 Erigeron argentatus, Gray.
1976* compositus, Pursh, var. discoides, Gray.
1205* Eaton, Gray.
1828 tener, Gray.
1385* caespitosus, Nutt.
1731 pumilus, Nutt.
1826 concinnus, T. & G., var. condensatus, Eaton.

1791 same, but rayless.
1797 var. aphanactis, Gray.
1234* Coulteri, T. C. Porter.
1859 armeriaefolius, Turez.
1979 Canadensis, L.
1668 Antennaria dimorpha, T. & G.
1983* Iva axillaris, Pursh, var. pubescens, Gray.

1920 Franseria Hookeriana, Nutt.
1984* Balsamorhiza macrophylla.
1727 Hookeri, Nutt. [Nutt.
1673 sagittata, Nutt.
1391 Wyethia amplexicaulis, Nutt.
1978* Helianthus ~~n. sp. =~~
1334 Helianthus Nuttallii, T. & G.
1986* Viguera ~~n. sp. =~~
1470 Madia sativa, Molina, var. racemosa, Gray.

1987* glomerata, Hook.
1982* Hemizonella ~~n. sp. =~~
1985* Hemizonia "
1721 Layia glandulosa, H. & A.
1631 Actinolepis Wallacei, Gray.
1988* lanosa, Gray.

1773 Chamaetis stevioides, H. & A.
1990* var. ? (pappus acule.)
1991* maerantha, Eaton.
1472 Douglasii, H. & A.
1992 var. (glandular.)
1989 Syntrophopappus Fremontii, [Gray.]

1993 Matricaria discoidea, DC.
1881 Tanacetum diversifolium, Eat.
1803 Tetradychia comosa, Gray.
1471 spinosa, Hook. & Arn.
1910 canescens, DC., var. incermis, Gray.

1994* Senecio vulgaris, L.
1996 aureus, L., var. multilobatus, Gray.
1995* Fendleri, Gray.
1736 lugens, Rich., var.
1598 hydrophilus, Nutt.
1155* Arnica Parryi, Gray.
1905 Cnicus Drummondii, Gray. (Caulicent.)

1995* undulatus, Gray.
1745 Centaurea Melitensis, L.
1939* Cichorium Intybus, L.
1763 Tragopogon porrifolius, L.
1732 Microseris nutans, Gray.
1707 major, Gray.
2001 var.
2002* linearifolia, Gray.
1798 Stephanomeria exigua, Nutt.
1849 var.
2005* Rafinesquia Neo-Mexicana, [Gray.]

1779 Glyptopleura marginata, Eat.
1997* setulosa, Gray.
2004* Malacothryx Coulteri, Gray.
2000* California, DC., var. glabrata, Eaton.
2003* ~~new species = Sonchus oregonicus~~
1789 sonchoides, T. & G.
1851 Crepis occidentalis, Nutt.
2012* var. erinita, Gray.
1857 acuminata, Nutt.
1759 glauca, T. & G.
1758 runcinata, T. & G.
2013* ~~new species = Sonchus oregonicus~~
1756 Troximom glaucum, Nutt., var. taraxicifolium, Gray.
2009 glaucum, Nutt., var. laciniatum, Gray.
2010 var.
1733 aurantiacum, Hook.
1213* grandiflorum, Gray, var. tenuifolium, Gray.

2011* var.
1872 Chilense, Gray.
1741 Lygodesmia grandiflora, T. & G.
2006* spinosa, Nutt.
1801 exigua, Gray.
2008* Lactuca Ludoviciana, Nutt.
1913 Canadensis, L.
2007* leucophaca, Gray.
1324 Sonchus oregonicus, L.
2014* Specularia perfoliata, A. DC.
2018* Vaccinium caespitosum, Mx., var. cuneifolium, Nutt.

1783 Chamaetis stevioides, H. & A.
1990* var. ? (pappus acule.)
1991* maerantha, Eaton.
1472 Douglasii, H. & A.
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2007* leucophaca, Gray.
1324 Sonchus oregonicus, L.
2014* Specularia perfoliata, A. DC.
2018* Vaccinium caespitosum, Mx., var. cuneifolium, Nutt.

1181 Pyrola rotundifolia, L., var. incrinata, Hook.
2015 Dodecatheon Media, L., var.
1393 Primula Parryi, Gray.
2016* Lysimachia ciliata, L.
2025 Fraxinus anomala, Torr.
1645 viridis, Mx.
1863 Apocynum cannabinum, L.

2019* Asclepiodora decumbens, Gr.
2017* Asclepias incarnata, L., var. longifolia, Gray.
1496 speciosa, Torr.
2020* Gentiana simplex, Gray. (Soda Lake, Southeastern Idaho.)
1244* Swertia perennis, L., var. obtusa, Griseb.

1878 Frasera speciosa, Dougl.
1698 Phlox canescens, T. & G.
2021 cespitosa, Nutt.
1230* Douglasii, Hook.
1708 longifolia, Nutt., var. Stansburyi, Gray.
2022* var. brevifolia, Gray.
1873 Collomia tenella, Gray.
1840 grandiflora, Dougl.
1684 gracilis, Dougl.
1656 Gilia demissa, Gray.
1902 liniflora, Benth., var. phar-naceoides, Gray.

2027* Bigelovii, Gray.
1408 Watsoni, Gray.
1784 pungens, Benth., var. squarrosa, Gray.
1788 floecosa, Gray.
1816 congesta, Hook.
1662 polychadon, Torr.
1772 depressa, Jones, ~~n. sp. =~~
1768 teneriaria, Gray.
1659 ~~n. sp. = macrophyllum~~
2024 inconspicua, Dougl.
1617 var. sinuata, Gray.
2023 leptomeria, Gray.
1651 var.
1742* var.
2026* filiformis, Parry.
2028* ~~n. sp. =~~
1884 Polemonium caeruleum, L.
1672 micranthum, Benth.
1666 Hydrophyllum capitatum, [Dougl.]

1704 occidentale, Gray, var. Watsoni, Gray.
1738 Nemophila breviflora, Gray.
1407 Phacelia circinata, Jacq. f.
2030* crenulata, Torr.
1723 Menziesii, Torr.
1646 cephalotes, Gray.
2029 rotundifolia, Torr.
1609 micrantha, Torr.
1626 Ivesiana, Torr.
1610 Fremontii, Torr.
1653 Nana demissum, Gray.
1780 Coldenia Nuttallii, Hook.
1622 Pectocarya linearis, DC. (Chilensis, DC.)

1667 Echinopspermum Redowskii, Lehm., var. occidentale, Watson.
2031* var. eupulatum, Gray.
2032* Eritrichium Californicum, DC.
1652 circumcissum, Gray.
1661 micranthum, Torr.
1621 barbigerrum, Gray.
1611 ~~n. sp. =~~
1483 leiocarpum, Watson.
2033* muriculatum, A. DC., var. ambiguum, Gray.

2034 pterocaryum, Torr.
1692 glomeratum, DC., var. humile, Gray.
2035* fulvocanescens, Gray.
1640 Amsinckia tessellata, Gray.
2038 Mertensia oblongifolia, Don.
2037* paniculata, Don.

1669 Lithospermum pilosum, Nutt.
2040 Convolvulus sepium, L.
2036* Cressa Cretica, L., var. Truxillensis, Choisy.
1918 Cuscuta tenuiflora, Eng.
1915 Californica, Choisy, var. breviflora, Eng.
1875 var. (near to var. graciliflora, Eng.)
2039* salina, Eng.
1914 curta, Eng. (ms.)
1485 Solanum triflorum, Nutt.
2041* nigrum, L.
2042* Physalis pubescens, L.
1624 Lycium Andersonii, Gray.
2043* Datura Tatula, L.
2057* Nicotiana Palmeri, Gray.
1856 attenuata, Torr.
2047* Verbascum Thapsus, L.
2049* Antirrhinum Kingii, Watson.
2048* filipes, Gray.
1396 Collinsia parviflora, Dougl.
1829 Pentstemon Eatonii, Gray.
1406 glaber, Pursh, var. cyananthus, Gray.
1819 Parryi, Gray.
1812 Wrightii, Hook. (?)
1820 Palmeri, Gray.
2045* humilis, Nutt.
1405 var. brevifolius, Gray.
2046* ambigus, Torr., var. Thurbieri, Gray.
2044 Kingii, Watson.
1883 azureus, Benth., var. ambiguus, Gray.

1888 var.
1655 Minulus Parryi, Gray.
2050* luteus, L.
1059* var. depauperatus, Gray.
1841 floribundus, Dougl.
2051 Synthlipsis pinnatifida, Watson.
1892 Castilleja binariaefolia, Benth.
1631 parviflora, Bong.
1403 Cordylanthus caulescens, Gray.
2052* Pedicularis centranthera, Gr.
2058* Apophyllon uniflorum, Gray.
2053 fasciculatum, Gray.
1847 multiflorum, Gray.
1487 Verbena hastata, L.
1109* Moradella odoratissima, Bth.
1904 Draceocephalum parviflorum, [Nutt.]

2055* Scutellaria antirrhinoides, Bth.
2054* galericulata, L.
2056 Brunella vulgaris, L.
1397 Stachys palustris, L.
2060* Plantago lanceolata, L.
1832 Plantago Patagonica, Jacq.
2059* var. aristata, Gray.
1625 var.
1865 Oxybaphus angustifolius. [Sweet.]
1337* Abronia fragrans, Nutt.
1814 Eriogonum caespitosum, Nutt., var. (E. Andinum.)
1140 chrysocephalum, Gray.
1785 ovalifolium, Nutt.
1775 villiflorum, Gray.
1877 microthecum, Nutt., var. Fendlerianum, T. & G.?
1795 var. leptocladon, T. & G.
1327* (1530* also) brevicornis, Nutt.
1774 gracile, Benth., var. effusum, T. & G.
1815 ~~n. sp. =~~

1669 Lithospermum pilosum, Nutt.
2040 Convolvulus sepium, L.
2036* Cressa Cretica, L., var. Truxillensis, Choisy.
1918 Cuscuta tenuiflora, Eng.
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1814 Eriogonum caespitosum, Nutt., var. (E. Andinum.)
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1669 Lithospermum pilosum, Nutt.
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2036* Cressa Cretica, L., var. Truxillensis, Choisy.
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2053 fasciculatum, Gray.
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1922	<i>P. monophylla</i> , Torr. & Frem.	1664	<i>Androstephium breviflorum</i> .	2108	<i>Aristida purpurea</i> , Nutt., var.
1835	<i>Juniperus Californica</i> , Carriere, var. <i>Utahensis</i> Eng.	2095*	— [Watson.]		<i>longiseta</i> , Vasey.
2082	<i>Virginiana</i> , L.	1499	<i>Smilacina amplexicaulis</i> , Nutt.	1787	var. <i>Fendleriana</i> , Vasey.
1802	<i>Ephedra antisiphilitica</i> , C. A. Meyer.	1501	<i>stellata</i> , Desf.	1790	<i>Pleuraphis Jamesii</i> , Torr.
2087*	<i>trifurca</i> , Torr.	1866	<i>Prosartes brachycarpa</i> , Wats'n.	2116*	<i>Tricuspis pulchella</i> , Torr.
1893	<i>Habenaria dilatata</i> , Gray.	1112	<i>Veratrum album</i> , L.	2109*	<i>Koeleria cristata</i> , Pers.
2084*	<i>Epipactis gigantea</i> , Dougl.	1242*	<i>Zygadenus elegans</i> , Pursh.	2110	<i>Glyceria airoides</i> , Nutt., var.
1908	<i>Spiranthes Romanzoviana</i> , [Cham.]	2091*	Nuttallii, Gray.	1757	<i>Catabrosa aquatica</i> , Beauv.
2089*	<i>Listera convallarioides</i> , Hook.	1674	<i>paniculatus</i> , Watson.	1005*	<i>Brizopyrum spicatum</i> , Hook., var. <i>strictum</i> , Gray.
1762	<i>Sisyrinchium mucronatum</i> , Mx.	1504	<i>Scirpus pungens</i> , Vahl.	2118	<i>Poa annua</i> , L., "var." (Munro)
1635	<i>bellum</i> , Watson.	2096*	<i>Torreyi</i> , Olney.	2119	<i>Andina</i> , Nutt., var. <i>purpurea</i> , Vasey.
2088*	<i>Alisma Plantago</i> , L., var. <i>Americanum</i> , Gray.	1016	<i>maritimus</i> , L.	2120*	<i>Kingii</i> , Watson.
1861	var. (linear leaves.)	1853	<i>microcarpus</i> , Presl.	1434*	<i>caesia</i> , Sm.
2085*	<i>Lemna Valldiana</i> (?)	2097*	—	1649	<i>Festuca tenella</i> , Willd., var. (F. <i>scitua</i> , Nutt.)
1693	<i>minor</i> , L.	1532*	<i>Carex foetida</i> , Allioni.	1868	<i>occidentalis</i> , Hook., var.
2079*	<i>polyrrhiza</i> , L.	2104*	<i>Hoodii</i> , Boott.	1326	<i>Triticum agilopoides</i> , Turcz.
1041*	<i>Zannichellia palustris</i> , L.	2105*	<i>marceida</i> , Boott.	2114*	<i>Hordeum pratense</i> , Huds.
2086*	<i>Typha latifolia</i> , L.	2103*	<i>scirpoides</i> , Mx.	2111*	<i>Trisetum alpestre</i> , Beauv.
2092*	<i>Fritillaria atropurpurea</i> , Nutt.	2098*	<i>stipata</i> , Muhl.	2117*	—
1717	<i>pudica</i> , Spreng.	2101	<i>tenella</i> , Schk.	2113*	<i>Panicum Cras-Galli</i> , L.
1705	<i>Erythronium grandiflorum</i> , [Pursh.]	2099*	<i>stellulata</i> , L.	2124*	<i>Cenchrus tribuloides</i> , L.
1766	<i>Calochortus Nuttallii</i> , T. & G.	1535*	<i>Jamesii</i> , Torr.	1889	<i>Equisetum levigatum</i> , A. Br.
2093*	<i>flexuosus</i> , Watson.	2102	var. (C. <i>Nebraskensis</i> .)	1606	<i>Notholana Parryi</i> , Eaton.
1770	<i>Allium acuminatum</i> , Hook.	2112*	<i>Oryzopsis micrantha</i> , Thurb.	2122	<i>Cheilanthes lanuginosa</i> , Nutt.
1752	<i>bisectrum</i> , Watson.	2090*	<i>Vaseya comata</i> , Thurb.	1511	<i>Pellaea densa</i> , Hook.
2094*	n. sp.?	1776	<i>Eriocoma cuspidata</i> , Nutt.	2121	<i>Adiantum Capillus-Veneris</i> , L.
		2105*	<i>Stipa spartea</i> , Trin.	1599*	<i>Isoetes Bolanderi</i> , Eng.
		1786	<i>comata</i> , Trin.	2125*	<i>Draba cuneifolia</i> , Nutt.
		2106	<i>viridula</i> , Trin., var.		
		2107*	var.		
		1805	<i>speciosa</i> , Torr.		

Attention is called to the following changes: Nos. 1349, 1248, 1372, 1203, 1187, 1439, 1210, 1447, 1444, 1446, 1450, 1234 n. sp., 1374, 1148, 1170, 1469, 1385, 1234, 1205, 1155, 1213, 1230, 1059, 1403, 1109, 1337, 1140, 1327, 1530, 1336, 1221, 1067, 1495, 1060, 1176, 1330, 1591, 1091, 1306, 1491, 1027, 1304, 1599. A few of these are errors of mine; the most are changes made necessary by recent studies of Gray, Watson, etc.

COLORADO FLORA.

Both the var. *trifida* and *pinnatisecta*, of *Erigeron compositus* are included in the No. 170 of my 1878 collection.

CORRECTIONS TO COLORADO FLORA.—*Polemonium exr.* var.—typ. f. 933=*Astragalus oroboides*, var. *Am. A. camp.*=*adsurgens*, (a form.) *Festuca ovina*, var.—*tenella*, Willd. *Lupinus arg.* var. *dee.*=var. *argophylla*. 749=*Astrag. campestris*. *Geum strictum*=*macrophyllum*. *G. mac.*=*strictum*.

Dr. Gray decides that *Erigeron radicans*, Hook., is not *E. glandulosus*, Porter—(my plant is the latter)—though two years ago he suggested that they were identical. In a private letter he says that my Colorado *Brickellia Californica* is probably *B. Wrightii*, "at least not Californica." *Saxifraga serpyllifolia*=*chrysantha*, Gray. (See *Proc. Am. Acad.*)

The utmost pains have been taken to avoid errors. If any authorities, orthography, or names are thought to be erroneous, it will be a favor to me to be notified of it.

TO BOTANISTS.

The following list of species represents my work in California during the time included between June 20th and August 4th. Nearly the whole collection was made at Santa Cruz, on the coast, and at Soda Springs, three miles below Summit, in the Sierras, on the Central Pacific Railroad. Some very interesting plants were collected on the road in Nevada, especially at Wells. The whole collection contains over 900 species.

I am greatly indebted to the Superintendent, General Passenger Agent, and Mr. B. B. Redding, of the Central Pacific Railroad, for facilities given me over their road, which made so large a collection possible in so short a time. The interest taken by these men in everything pertaining to the welfare of their State is well known, and would require no mention here were it not for their personal interest in my work. At least a dozen new species were discovered, and quite a number of others were added to the already well known flora of the State.

I have been able to use both volumes of the "Flora of California" this year, and so have made some changes in synonyms, and also have corrected some common errors.

The sets contain 507 species. Plants starred are not in the sets.

It is my intention to spend the entire coming season in completing the exploration of the coast, and hope to add a much larger number of species to the collection. Seeds, roots and living plants will be collected by request, as well as herbarium specimens. All communications should be addressed to—

MARCUS E. JONES, A. M.,
Salt Lake City, Utah, U. S. A.

Flora of California.—First Fascicle.

COLLECTED BY MARCUS E. JONES, A. M.

2335	<i>Clematis ligusticifolia</i> , Nutt.	2420	<i>Arenaria capillaris</i> , Poir.	2332	<i>truncatus</i> , Nutt.
	var. <i>Californica</i> , Watson.	2643*	<i>Douglasii</i> , T. & G.	2664*	<i>hirsutissimus</i> , Benth.
2585	<i>Thalictrum polycarpum</i> , Watson.	2627*	<i>Sagina Linnaei</i> , Presl.	2669	<i>Trifolium n. sp. (?)</i>
2485	<i>Ranunculus flammula</i> , L.	2641	<i>Lepigonum macrothecum</i> , F. & M.	2592	<i>multicaule</i> , n. sp. = <i>monanthium</i>
2591	<i>Californicus</i> , Benth.	2642*	var.	2519	<i>longipes</i> , Nutt.
2614*	<i>Aquilegia truncata</i> , F. & M.	2369	medium, Fries.	2445	<i>Kingii</i> , Watson.
2631*	<i>Delphinium simplex</i> , Dougl.	2347	<i>Pentstemon ramosissima</i> , H. & A.	2673*	<i>Macraei</i> Hooker & Arnot.
2410	<i>decorum</i> , F. & M. var.	2645*	<i>Portulaca oleracea</i> , L.	2329	<i>ciliatum</i> , Nutt.
	<i>Nevadense</i> , Watson.	2368	<i>Calandrinia Menziesii</i> , Hook.	2674*	var. = <i>J. Grayi</i> Watson
2353	<i>Californicum</i> , T. & G.	2630*	<i>Claytonia perfoliata</i> , Don.	2675*	<i>gracilentum</i> , Torr. & Gray.
2571	<i>glaucom</i> , Watson.	2628*	<i>Chamissonis</i> , Esch.	2676	<i>involutum</i> , Willd.
2543	<i>Aconitum Columbianum</i> , Nutt.	2629*	<i>triphyllo</i> , Watson.	2264	<i>tridentatum</i> , Lindley.
2632*	<i>Aetna spicata</i> , L., var.	2402	<i>Spraguea umbellata</i> , Torrey.	2263	var. <i>obtusiflorum</i> , Watson.
	<i>arguta</i> , Torrey.	2460	var. <i>montana</i> , Jones, <i>Nev.</i>	2672	var. <i>melananthum</i> , Watson.
2615*	<i>Paeonia Brownii</i> , Dougl.	2648*	<i>Hypericum Scouleri</i> , Hooker.	2262	<i>pauciflorum</i> , Nutt.
2616*	<i>Berberis repens</i> , Lindley.	2647	<i>anagallodes</i> , Cham. & Schl.	2595	<i>microcephalum</i> , Pursh.
2617*	<i>Nuphar polyccephalum</i> , Eng.	2649*	<i>Malva borealis</i> , Wallman.	2230	var.
2315	<i>Platystemon Californicus</i> , Benth.	2433	<i>Sidalcea malvaeflora</i> , Gray.	2330	<i>microdon</i> , Hooker & Arnot.
2226	<i>Eschscholtzia Californica</i> , Cham.	2556	<i>humilis</i> , Gray.	2497	<i>cyathiferum</i> , Lindley.
2622*	<i>Alyssum maritimum</i> , L.	2792*	<i>Linum perenne</i> , L.	2671*	<i>barbigerum</i> , Torrey.
2368	<i>Draba stenoloba</i> , Ledeb.	2854*	<i>spergulinum</i> , Gray.	2670*	<i>fucatum</i> , Lindley.
2635*	<i>Dentaria tenella</i> , Pursh.	2650*	<i>Geranium Carolinianum</i> , L.	2677*	<i>Melilotus parviflora</i> , Desf.
2636*	<i>Cardamine oligosperma</i> , Nutt.	2651*	<i>Erodium cicutarium</i> , L. Her.	2678*	<i>alba</i> , Lam.
2564	<i>Arabis Lyallii</i> , Watson.	2274	<i>Oxalis Oregana</i> , Nutt.	2679*	<i>Medicago sativa</i> , L.
2619*	<i>Holbellii</i> , Hornem.	2652*	<i>corniculata</i> , L.	2680*	<i>denticulata</i> , Willd.
2505	<i>Streptanthus tortuosus</i> , Kellogg.	2653*	<i>Euonymus occidentalis</i> , Nutt.	2681*	<i>Hosackia crassifolia</i> , Benth.
2618*	<i>Cheiranthus Menziesii</i> , B. & H.	2258	<i>Rhamnus Californica</i> , Esch.	2682*	<i>oblongifolia</i> , Benth.
2640*	<i>Ceanothus pilosus</i> , Watson.	2654*	var. <i>tomentella</i> , Watson.	2501	<i>Torreyi</i> , Gray.
2620*	<i>Erysimum asperum</i> , DC.	2554	<i>Purshiana</i> , DC.	2683	var. <i>Nevadensis</i> , Gray.
2633*	<i>Brassica nigra</i> , Boissier.	2656*	<i>Ceanothus thyrsiflorus</i> , Esch.	2234	<i>rigida</i> , Benth.
2621*	<i>Barbarea vulgaris</i> , R. Br., var.	2468	<i>velutinus</i> , Dougl.	2260	<i>maritima</i> , Nutt.
	<i>arcuata</i> , Koch.	2456	<i>cordulatus</i> , Kellogg.	2684*	var. (perfectly smooth.)
2414	<i>Sisymbrium incisum</i> , Eng.	2242	<i>papillosus</i> , Torr. & Gray.	2228	<i>strigosa</i> , Nutt.
2634*	<i>reflexum</i> , Nutt.	2657*	<i>prostratus</i> , Benth.	2266	<i>parviflora</i> , Benth.
2336	<i>Nasturtium obtusum</i> , Nutt.	2204	<i>Esculus Californica</i> , Nutt.	2265	<i>Purshiana</i> , Benth.
2638*	<i>officinale</i> , R. Br.	2477	<i>Acer glabrum</i> , Torrey.	2685*	<i>subpinnata</i> , F. & G.
2639*	<i>Lepidium intermedium</i> , Gr.	2300	<i>Negundo Californicum</i> , T. & G.	2259	<i>brachycarpa</i> , Benth.
	(with petals)	2141	<i>Rhus laurina</i> , Nutt.	2257	<i>glabra</i> , Torrey.
2391	<i>Senebiera didyma</i> , Persoon.	2660*	<i>Thermopsis Californica</i> , Watson.		<i>decumbens</i> , Benth.
2254	<i>Helianthemum scoparium</i> , Nutt.	2661*	<i>Pickeringia Montana</i> , Nutt.	2686	var. <i>Nevadensis</i> , Watson
2646	<i>Viola ocellata</i> , Torr. & Gray.	2322	<i>Lupinus arboreus</i> , Sims.	2331	<i>tomentosa</i> , Hooker & Arnot.
2271	<i>armentosa</i> , Dougl.	2662*	var.	2365	<i>Psoralea orbicularis</i> , Lindley.
2659	<i>Polygala cucullata</i> , Benth.	2380	<i>Chamissonis</i> , Eschscholtz.	2692*	<i>strobilina</i> , Hooker & Arnot.
2318	<i>Frankenia grandifolia</i> , Cham. &	2663*	<i>rivularis</i> , Douglas.	2323	<i>macrostachya</i> , DC.
2502	<i>Silene Lyallii</i> , Watson.	2324	var. <i>latifolius</i> , Watson.	2691*	<i>physodes</i> , Dougl.
2325	<i>Gallica</i> , L.	2432	<i>Burkei</i> , Watson.	2690*	<i>Astragalus Purshii</i> , Dougl.
2623*	<i>Menziesii</i> , Hooker.	2411	<i>Andersoni</i> , Watson.	2687*	<i>Vicia gigantea</i> , Hooker.
2624*	<i>Californica</i> , Durand.	2546	var. (?) <i>Grayi</i> , Watson.	2686*	<i>exigua</i> , Nutt.
2625*	<i>occidentalis</i> , Watson.	2406	<i>calcaratus</i> , Kellogg.	2688*	<i>Lathyrus vestitus</i> , Nutt.
2430	<i>verecunda</i> , Watson.	2395	<i>minimus</i> , Dougl.	2693*	<i>Prunus emarginata</i> , Walpers.
2644*	<i>Cerastium viscosum</i> , L.	2261	<i>nanus</i> , Dougl.	2452	<i>Spiraea betulifolia</i> , Pallas.
2212	<i>Stellaria media</i> , L.	2665*	<i>micranthus</i> , Dougl.	2506	<i>discolor</i> , Pursh, var. <i>dumosa</i> , W.
2412	<i>umbellata</i> , Turcz.	2666*	var. <i>bicolor</i> , Watson.	2694*	<i>Neillia opulifolia</i> , Benth. & Hook.
2626*	<i>longipes</i> , Goldie.	2667	<i>trifidus</i> , Torrey.	2555	<i>Rubus Nutkanus</i> , Mocino.

- 2695 *Rubus ursinus*, Cham. & Schl.
2696 *Purshia tridentata*, DC.
2697* *Geum macropyllum*, Willd.
2698* *Fragaria Virginiana*, Ehrh.
var. *Illinoensis*, Gray.
2699* *Potentilla glandulosa*, Lindl.
2481 var. *Nevadensis*, Watson.
2700 *rivalis*, Nuttall, var. *mille-*
grana, Watson.
2523 *Breweri*, Watson.
2551 var. *(?)*
2536 *gracilis*, Dougl., var. *label-*
liformis, T. & G.
2706* *gelida*, Meyer.
2705* *fruticosa*, L.
2409 *Horkelia fusca*, Lindley.
2251 *Californica*, Cham. & Schl.
2238 *Adenostoma fasciculatum*, H. & A.
2702* *Rosa Californica*, Cham. & Schl.
2703* var. *ultramontana*, Watson.
2704* *gymnocarpa*, Nutt.
2701* *Pirus sambucifolia*, Cham. & Schl.
2711* *Saxifraga Virginiana*, Mx.
2713* *nivalis*, L.
2712* *integrifolia*, Hooker.
2413 *bryophora*, Gray.
2567 *punctata*, L.
2729 *Boykinia occidentalis*, T. & G.
2710* *Tellima grandiflora*, Dougl.
2233 *Tiarella unifoliata*, Hooker.
2566 *Mitella Breweri*, Gray.
2510 *Heuchera rubescens*, Torrey.
2708 *micrantha*, Dougl.
2658* *Whipplea modesta*, Torrey.
2378 *Ribes Menziesii*, Pursh.
2364 var.
2508 var.
2476 *leptanthum*, Gray.
2202 *divaricatum*, Dougl.
2559 *lacustre*, Poir., var. *molle*, Gray.
2707* *viscosissimum*, Pursh.
2372 *sanguineum*, Pursh.
var. *malvaceum*, Watson.
var. *variegatum*, Watson.
2509 *Sedum Rhodiola*, DC.
2580 *obtusatum*, Gray.
2714* *Lythrum alatum*, Pursh.
var. *linearifolium*, Gray.
2728* *Epilobium spicatum*, L.
2494 *coloratum*, Muhl.
2727 *origanifolium*, Lam.
(pubescent.)
2726* *Franciscanum*, Barbey.
2725* *glaberrimum*, Barbey.
2586 *paniculatum*, Nutt.
2724 *Gaiophytum racemosum*, T. & G.
2403 *diffusum*, T. & G.
2722* *(Enothera biennis, L., var.*
hirsutissima, Gray.
2721* *heterantha*, Nutt.
2371 *bistorta*, Nutt.
2231 *micrantha*, Hornemann.
2723* *dentata*, Cavanilles.
2229 *strigulosa*, T. & G.
2295 *Godetia quadrivulnera*, Spach.
2720* *tenella*, Watson.
2348 *amena*, Filja.
2255 *Clarkia elegans*, Dougl.
2719* *rhomboidea*, Dougl.
2718* *Eucharidium concinnum*, F. & M.
2358 *Boisduvalia densiflora*, Watson.
2715 *glabella*, Watson.
2717* *Heterogaura Californica*, Rothr.
2716 *Circaea Pacifica*, Asch. & Mag.
2729* *Mentzelia dispersa*, Watson.
2267 *Megarrhiza Californica*, Torrey.
2334 *Datisca glomerata*, B. & H.
2730* *Mesembryanthemum aquilat-*
erale, Haworth.
2270 *Mollugo verticillata*, L.
2288 *Eryngium petiolatum*, Hooker,
var. *armatum*, Watson.
2735* *Sanicula Menziesii*, H. & A.
2404 *tuberosa*, Torrey.
2527 *Carum Gairdneri*, B. & H.
2291 *Kelloggii*, Gray.
2734* *Osmorhiza nuda*, Torrey.
2511 *Glycosma occidentale*, Nutt.
2733* *(Eranthe Californica, Watson.*
2397 *Ligusticum apifolium*, B. & H.
2582 *Selinum capitellatum*, B. & H.
2584 *Angelica Breweri*, Gray.
2421 *Pseudanum macrocarpum*, Nutt.
2732* *Heracleum lanatum*, Michx.
2731* *Ferula dissoluta*, Watson.
2319 *Daucus pusillus*, Michx.
2375 *Aralia Californica*, Watson.
2736* *Cornus Californica*, Meyer.
2453 *stolonifera*, Mx.
2302 *Sambucus glauca*, Nutt.
2737 *racemosa*, L.
2289 *Symphoricarpos racemosus*, Mx.
2469 *oreophilus*, Gray.
2738* *Lonicera hispidula*, Dougl., var.
subspicata, Gray.
2376 var. *vacillans*, Gray.
2739* *involuta*, Banks.
2405 *conjugalis*, Kellogg.
2440 *Kelloggii galioides*, Torrey.
2214 *Galium Californicum*, H. & A.
2245 *Nuttallii*, Gray.
2454 *bifolium*, Watson.
2527 *trifidum*, L.
2473 *multiflorum*, Kellogg.
2900* *Valeriana sylvatica*, Rich.
2607 *Eupatorium occidentale*, Hooker.
2314 *Grindelia robusta*, Nutt.,
var. *latifolia*, Gray.
2750* *Pacificia*, Jones, n. sp. *(= Pinna*
Chrysopsis (?) = Pinna robusta
2749 *Oregana*, Gray.
2489 *Breweri*, Gray.
2748 *Aplopappus Bloomeri*, Gray.
2747* *Bigelovia graveolens*, Gray.
2745* *Solidago occidentalis*, Nutt.
2746* *Californica*, Nutt.
2320 *Corethrogyne filaginifolia*, Nutt.
2744* *Aster canescens*, Pursh.
2743* *radulinus*, Gray.
2742* *adscendens*, Lindley.
2541 var.
2525 *integrifolius*, Nutt.
2532 *Andersonii*, Gray.
2374 *Erigeron foliosus*, Nutt.
2747* *glabellus*, Nutt.
2431 *salsuginosus*, Gray.
2741* *Coulteri*, Porter.
2740* *Canadensis*, L.
2382 *Baccharis pilularis*, DC.
2273 *Douglasii*, DC.
2757* *Adenocaulon bicolor*, Hooker.
2759* *Psilocarphus tenellus*, Nutt.
2758* *Filago Californica*, Nutt.
2544 *Antennaria dioica*, Gaertn.
2756* *alpina*, Gaertn.
2755* *luzuloides*, T. & G., var.
argentea, Gray.
2390 *Anaphalis margaritacea*, Benth.
2753* *Gnaphalium decurrens*, Ives.
2754* var.
2301 *Sprengelii*, Hook. & Arn.
2752* *microcephalum*, Nutt.
2388 *ramosissimum*, Nutt.
2286 *palustris*, Nutt.
2304 *Gnaphalium purpureum*, L.
2277 *Franseria bipinnatifida*, Nutt.
2751* *Chamissonis*, Less.
2604 *Balsamorhiza sagittata*, Nutt.
2482 *Wyethia mollis*, Gray.
2484 *Helianthella Californica*, Gray.
2248 *Madia Nuttallii*, Gray.
2597 *elegans*, Don.
2211 *sativa*, Molina, var. *congesta*,
T. & G.
2297 var. *racemosa*, Gray.
2341 var.
2407 var.
2761 var. *dissitifolia*, Gray.
2443 *glomerata*, Hooker.
2290 *filipes*, Gray.
2210 *Hemizonia corymbosa*, T. & G.
2285 *macradenia*, DC.
2762* *pungens*, T. & G.
2373 *luzukifolia*, DC.
2760* *plumosa*, Gray.
2349 *Lagophylla ramosissima*, Nutt.
2777* *Jaumea carnosa*, Gray.
2220 *Bahia artemisiifolia*, Less.
2775* *confertiflora*, DC.
2776 var. *trifida*, Gray.
2774* *lanata*, DC., var. *grandiflora*,
Gray.
2491 *integrifolia*, DC.
2773* *arachnoidea*, F. & M.
2333 *Monolopia major*, DC.,
var. *lanceolata*, Gray.
2478 *Chenactis Douglasii*, H. & A.
2338 *Helenium puberulum*, DC.
2772* *Achillea millefolium*, L.
2392 *Matricaria* —?
2771* *discoidea*, DC.
2770* *Tanacetum Huronense*, Nutt.
2354 *Artemisia Californica*, Less.
2537 *Ludoviciana*, Nutt.
2767* *dracunculoides*, Pursh.
2768* *biennis*, Willd.
2254 *pychnocephala*, DC.
2769* *trifida*, Nutt. (?)
2765* *Senecio vulgaris*, L.
2574 *integerrimus*, Nutt. = *S. hypnoides*
2766* *triangularis*, Hooker.
2763* *Arnica discoidea*, Benth.
2572 *latifolia*, Bongard.
2764 *longifolia*, Eaton.
2788* *Cnicus undulatus*, Gray.
2789* *Andersonii*, Gray.
2306 *Californicus*, Gray.
2787* *Silybum Marianum*, Gaertn.
2205 *Centaurea solstitialis*, L.
2398 *Microseris nutans*, Gray.
2790* *Tragopogon porrifolius*, L.
2346 *Stephanomeria paniculata*, Nutt.
2791* *minor*, Nutt.
2778* *Rafinesquia Californica*, Nutt.
2221 *Hypochoeris glabra*, L.
2786 *Malacothrix obtusa*, Benth.
2785* *saxatilis*, T. & G.
2784* *Crepis occidentalis*, Nutt.
var. *Nevadensis*, Kellogg.
2783* *acuminata*, Nutt.
2350 *Troximon apargioides*, Less.
2781* *grandiflorum*, Gray.
2782* *retrosum*, Gray.
2284 *Hieracium albiflorum*, Hooker.
2780* *triste*, Willd., var. *gracile*, Gray.
2779* *Sonchus oleraceus*, L.
2799* *Heterocodon rariflorum*, Nutt.
2275 *Campanula prenanthoides*, Durand.
2798* *Vaccinium Myrtilus*, L., var.
microphyllum, Hooker.
2797* *occidentale*, Gray.
2272 *Vaccinium ovatum*, Pursh.
2800 *Arbutus Menziesii*, Pursh.
2237 *Arctostaphylos tomentosa*, Dougl.
2796 *pungens*, H. B. K., var.
platyphyllum, Gray.
2795* *Nevadensis*, Gray.
2794* *Bryanthus Breweri*, Gray.
2235 *Rhododendron occidentale*, Gray.
2793* *Ledum glandulosum*, Nutt.
2367 *Statice Limonium*, L.,
var. *Californica*, Gray.
2801* *Dodecatheon Meadia*, L.
2247 *Anagallis arvensis*, L.
2803* *Asclepias speciosa*, Torrey.
2802* *Gomphocarpus cordifolius*, Benth.
2805* *Erythraea triacantha*, Griseb.
2256 *Muhlenbergii*, Griseb.
2806 var. (white flowered.)
2609 *Gentiana calycosa*, Griseb.
2804* *Menyanthes trifoliata*, L.
2470 *Phlox Douglasii*, Hooker.
2812* var. *longifolia*, Gray.
2250 *Collomia grandiflora*, Dougl.
2570 *linearis*, Nutt.
2471 var. *subulata*, Gray.
2552* *aggregata*, Porter.
2426 *gracilis*, Dougl.
2466 *gilioidea*, Benth.
2549 (?) var.
2282 *heterophylla*, Hooker.
2444 *leptalea*, Gray.
2427 *Gilia pusilla*, Benth.
2424 n. sp.?
2810 *micrantha*, Steudel.
2557 *ciliata*, Benth.
2474 *Californica*, Benth. (?)
2217 *squarrosa*, Hook. & Arn.
2809 *Breweri*, Gray.
2465 *divaricata*, Torrey.
2328 *atractyloides*, Steudel.
2808* *capitata*, Dougl.
2381 *achilleaeifolia*, Benth.
2811* *multicaulis*, Benth.
2575 *Polemonium humile*, Willd.
var. *pulehellum*, Gray.
2807* *ceruleum*, L.
2817* *Hydrophyllum occidentale*,
Gray, var. *Watsoni*, Gray.
2816* *Nemophila parviflora*, Dougl.
2815* *Draperia systyla*, Torrey.
2447 *Phacelia namatoides*, Gray.
2813* *circinata*, Jacq. f.
2359 n. sp.?
2313 *tanacetifolia*, Benth.
2814* *ramosissima*, Dougl.
2416 *hydrophyloides*, Torrey.
2269 *Emmenanthe penduliflora*, Benth.
2496 *Nama Lobbii*, Gray.
2820 *Heliotropium Curassavicum*, L.
2357 *Amsinckia intermedia*, F. & M.
2819* *Eritrichium Chorisianum*, DC.
2326 *Scouleri*, A. DC.
2428 *Californicum*, DC.
2539* var. *subglochidiatum*, Gray.
2339 *leiocarpum*, Watson.
2337 *muriculatum*, A. DC.
2472 var.
2818* var. *ambiguum*, Gray.
2276 *Convolvulus luteolus*, Gray.
2296 *arvensis*, L.
2317 *Cressa Cretica*, L.
var. *Truxillensis*, Choisy.
2490 *Cuscuta Californica*, Choisy,
var. *breviflora*, Eng.
2821* var. *longiloba*, Eng.
2316 *salina*, Eng.
2224 *Solanum nigrum*, L.,
var. *Douglasii*, Gray.
2223 *umbelliferum*, Esch.
2548 *Chamaesaracha nana*, Gray.
2822 *Nicotiana attenuata*, Torrey.
2225 *Scrophularia Californica*, Cham.
2429 *Collinsia Torreyi*, Gray.
2394 var. *indica*, Gray.
2488 *Pentstemon Menziesii*, Hooker.
2596 *Leemoni*, Gray.
2823* *glaber*, Pursh.
2404 var. (densely pubescent.)
2486 *deustus*, Dougl.
2538 *confertus*, Dougl.,
var. *ceruleo-purpureus*, Gray.
2461 *gracilentus*, Gray.
2439 *azureus*, Benth., var. *parvulus*,
var. [Gray]
2605* *Rozlii*, Regel.
2399 *heterodoxus*, Gray.
2561 (?) var.
2396 *Mimulus leptaleus*, Gray.
2459 var. *(?)*
2507 *nanus*, Hook. & Arn.
2250 *glutinosus*, Wendland.
2495 *Lewisii*, Pursh.
2513 *luteus*, L.
2608 var. *alpinus*, Gray.
2415 *rubellus*, Gray.
2824* *floribundus*, Dougl.
2825* *moschatus*, Dougl.
2434 *primuloides*, Benth.
2826* *Veronica alpina*, L.
2827* *Castilleja foliolosa*, H. & A.
2243 *latifolia*, Hook. & Arn.
2590 *parviflora*, Bong.
2535 *miniata*, Dougl.
2531 var.
2828 *Orthocarpus* — (?)
2830* *pilosus*, Watson.
2829* *divaricatus*, Benth.
2603 *tenuifolius*, Benth.
2599 *lacerus*, Benth.
2589 *Cordylanthus tenuis*, Gray.
2366 *maritimus*, Nutt.
2581 *Pedicularis racemosa*, Dougl.
2576 *Grenlandica*, Retz.
2540 *attollens*, Gray.
2419 *semibarbata*, Gray.
2853* *Aphyllon Californicum*, Gray.
2836* *Mentha Canadensis*, L.
2834* *Monardella villosa*, Benth.
2218 var. *leptostachya*, Torrey.
2835* var. *glabella*, Gray.
2475 *odoratissima*, Benth.
2216 *Micromeria Douglasii*, Benth.
2833* *Pogogyne serpyllifolia*, Gray.
2268 *Audubertia stachyoides*, Benth.
2587 *Lophanthus urticifolius*, Benth.
2594 *Scutellaria Californica*, Gray.
2832 *Brunella vulgaris*, L.
2222 *Stachys bullata*, Benth.
2831* *Trichostema oblongum*, Benth.
2215 *Verbena officinalis*, L.
2598
2837* *Plantago major*, L.
2838* *maritima*, L.
2839* *Virginica*, L., var. *maxima*, Gray.
2462 *Abronia umbellata*, Lam.
2379 *latifolia*, Esch.
2850* *Oxyria digyna*, Campd.
2847* *Rumex salicifolius*, Weim.
2849* *maritimus*, L.
2848* *pulcher*, L.
2846* *acetosella*, L.
2384 *Polygonum Paronychia*, Cham. &
2861* *Shastense*, Brewer. [Sch.
2845 *aviculare*, L.
2504 *minimum*, Watson.
2455 *tenne*, Michx.
2423 *Polygonum imbricatum*, Nutt.
2844* *Muhlenbergii*, Watson.
2545 *Bistorta*, L.
2613 *polymorphum*, Ledeb.
2843* *Davisia*, Brewer.
2503 *Eriogonum umbellatum*, Torrey.
2611 *Lobbii*, T. & G.
2417 *incanum*, T. & G. = *E. marifolium*
2219 *latifolium*, Smith.
2363 *nudum*, Dougl.
2842* var. *pauciflorum*, Watson.
2841* *microthecum*, Nutt.
2840* *vineum*, Dougl.
2408 *Oxytheca n. sp. = E. speciosa*
2393 *Chorizanthe Douglasii*, Benth.
2253 *pungens*, Benth.
2386 var. *C. ensifolia*, n. sp.
2239 *Pterostegia drymarioides*, F. & M.
2399* *Amarantus retroflexus*, L.
2852* *blitoides*, Watson.
2858* *Chenopodium ambrosioides*, L.
2859* var. *anthelminticum*, Gray.
2860* *capitatum*, Watson.
2278 *Atriplex leucophylla*, Dietrich.
2370 *Californica*, Moquin.
2361 *Hesperocnide tenella*, Torrey.
2856* *Platanus racemosa*, Nutt.
2857* *Eremocarpus setigerus*, Benth.
2383 *Croton Californicus*, Muell. Arg.
2855* *Euphorbia ocellata*, Dur. & Hilg.
2862* *serpyllifolia*, Pers.
2864* *Alnus rhombifolia*, Nutt.
2863* *incana*, Willd., var.
virescens, Watson.
2351 *Myrica Californica*, Cham.
2870* *Salix laevigata*, Bebb.
2450 *lasiantha*, Benth., var.
typica, Bebb.
2869* *lasiolepis*, Benth.
2868* *flavescens*, Nutt.
2867* *Sitchensis*, Sanson, var.
angustifolia, Bebb.
2446 *Californica*, Bebb.
2865* *Populus tremuloides*, Mx.
2866* *trichocarpa*, T. & G.
2483 *Quercus chrysolepis*, Liebm., var.
vaciniifolia, Eng.
2292 *agrifolia*, Nee.
2362 *Wislizeni*, A. DC., var.
frutescens, Eng.
2871* *Kelloggii*, Newberry.
2298 *densiflora*, Hook. & Arn.
2872* *Castanopsis chrysophylla*, A. DC.
2873* *Corylus rostrata*, Ait., var.
Californica, A. DC.
2601* *Arceuthobium divaricatum*, Eng.
2457 *Juniperus occidentalis*, Hooker,
var. (seeds exposed.)
2602 *Cupressus Goveniana*, Gordon.
2355 *Libocedrus decurrens*, Torrey.
2299 *Sequoia sempervirens*, Endl.
2463 *Abies concolor*, Lindley.
2874* *magnifica*, Murray.
2875* *Pseudotsuga Douglasii*, Carr.
2565 *Tsuga Pattoniana*, Eng.
2462 *Pinus monticola*, Dougl.
2877* *Lambertiana*, Dougl.
2458 *ponderosa*, Dougl., var. *Jeffreyi*,
contorta, Dougl., var. [Eng.
2422 *Murrayana*, Eng.
2876* *insignis*, Dougl.
2244 *Habenaria elegans*, Bolander.
2879* *leucostachys*, Watson.
2578 *Spiranthes Romanzoffiana*, Cham.
2878* *porrifolia*, Lindley.
2880* *Sisyrinchium bellum*, Watson.
2882* *Allium validum*, Watson.

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|-------|----------------------------------|-------|--------------------------------------|-------|-------------------------------------|
| 2881* | laeunosum, Watson. | 2908* | Carex filifolia, Nutt. | 2579 | Aira caespitosa, L. |
| 2569 | platycaule, Watson. | 3010* | Gayana, Desv. | 2924 | elongata, Hook. |
| 2884* | Brodiea grandiflora, Smith. | 2500 | festiva, Dew., var. gracilis, Olney. | 2201 | var. tenuis, Vasey. |
| 2885* | terrestris, Kellogg. | 2533 | athrostachya, Olney. | 2947* | danthonioides, Trin. |
| 2249 | ixioides, Watson. | 2283 | Deweyana, Schwein, var. | 2925 | Melica imperfecta, Trin. |
| 2895* | Camassia esculenta, Lindley. | | Bolanderi, W. Boott. | 2563 | var. (2 flowered) |
| 2213 | Chlorogalum pomeridianum, Kunth. | 2448 | n. sp. (?) | 2479 | stricta, Bolander. |
| 2886 | Smilacina amplexicaulis, Nutt. | 3011* | echinata, Murr. (?) var. | 2934* | Harfordii, Bolander. |
| 2887* | sessilifolia, Nutt. | 2407 | scoparia, Schl. | 2928* | Glyceria nervata, Trin. |
| 2888* | Lilium Washingtonianum, Kell. | | var. fulva, W. Boott. | 2577 | pauciflora, Presl. |
| 2441 | parvum, Kellogg. | 2515 | adusta, Boott. | 2517* | Atropis—? |
| 2281 | pardalinum, Kellogg, var. | | var. congesta, W. Boott. | 2929* | Californica, Munro. |
| | angustifolium, Kellogg. | 3012* | Buxbaumii, Wahl. | 2526 | tenuifolia, Thurber. |
| 2889* | Calochortus Weedii, Wood. | 3013 | atrata, L., var. erecta, W. Boott. | 2927* | Poa arctica, R. Br. |
| 2890* | luteus, Dougl., var. | 2449 | Kelloggii, W. Boott. | 2926* | Bolanderi, Vasey, Ms. <i>New.</i> |
| | oculatus, Watson. | 2520 | vulgaris, var. juncella, Fries. | 2930* | Briza media, L. |
| 2418 | Nuttallii, T. & G. | 3014* | angustata, Boott. | 2932* | Festuca Myurus, L. |
| 2891* | Prosartes Hookeri, Torrey. | 3017* | Jamesii, Torrey. | 2931* | ovina, L. |
| 2883* | Clintonia Andrewsiana, Torrey. | 2345 | lacinata, Boott. | 2516* | var. durisiacula, Gray. |
| 2892* | Trillium ovatum, Pursh. | 3015* | podocarpa, R. Br. | 2933 | Bromus maximus, Desf. |
| 2893* | Veratrum Californicum, Durand. | 2534 | Raynoldsii, Dewey. | 2287 | ciliatus, L. |
| 2894* | Zygadenus venenosus, Watson. | 2530 | globosa, Boott. | 2487 | Ceratocloa brevistarata, Hooker. |
| 2356 | Leuma Valdiviana, Philippi. | 2514 | Whitneyi, Olney. | 2935* | Lolium perenne, L. |
| 2909* | Phyllospadix Torreyi, Watson. | 2907* | luzulaefolia, W. Boott. | 2308 | temulentum, L. |
| 2310 | Potamogeton gramineus, L. | 2492 | fulva, Good., var. | 2522 | Hordeum nodosum, L. |
| 2309 | pectinatus, L. | | Hornschuchiana, Boott. | 2938 | Elymus condensatus, Presl. |
| 2896* | Luzula divaricata, Watson. | 3016* | filiformis, L., var. latifolia, | 2937 | Sibiricus, L. |
| 2897 | comosa, Meyer. | 2493 | vesicaria, L. [Boeckeler. | 2480 | Sitanion, Schult. |
| 2898* | var. macrantha, Watson. | 2307 | Paspalum distichum, L. | 2939* | Equisetum robustum, A. Braun. |
| 2899* | var. subsessilis, Watson. | 2294 | Panicum dichotomum, L. | 2944* | Poypodium Californicum, Kaulf. |
| 2385 | Juncus Lescurii, Bolander. | 2910* | Setaria glauca, Beauv. | 2206 | Gymnogramme triangularis, Kaulf. |
| 2340 | effusus, L., var. brunneus, Eng. | 2912* | Phleum alpinum, L. | 2438 | Cheilanthes gracillima, Eaton. |
| 2293 | patens, Meyer. | 2911* | Alopecurus pratensis, L. | 2943* | Pellaea andromedifolia, Fee. |
| 2573 | Parryi, Eng. | 2913* | Hierocloa macrophylla, Thurber. | 2252 | Ornithopus, Hooker. |
| 2903* | bufonius, L. | 2914* | Vilfa depauperata, Torrey. | 2436 | densa, Hooker. |
| 2936* | var. fasciculiflorus, Eng. | 2401 | gracillima, Thurber. | 2437 | Bridgesii, Hooker. |
| 2498 | tenuis, Willd. | 2915* | var. | 2442 | Cryptogramme acrostichoides, R. Br. |
| 2902 | longistylis, Torrey. | 2529 | Sporobolus Jonesii, Vasey, n. sp. | 2209 | Pteris aquilina, L., var. |
| 2524 | var. latifolia, Eng. | 2352 | Polypogon litoralis, Smith. | | lanuginosa, Bong. |
| 2558 | siphioides, Meyer, var. | 2916* | Agrostis alba, L. | 2240 | Adiantum emarginatum, Hooker. |
| | montanus, Eng. | 2618* | exarata, Trin. (?) var. | 2610 | pedatum, L. |
| 2387 | phaecephalus, Eng. | 2919* | varians, Trin. | 2232 | Lomaria spicant, Desvauz. |
| | "forma angustifolia," Eng. | 2305 | Gastridium australe, Beauv. | 2280 | Woodwardia radicans, Smith. |
| 2400 | var. gracilis, Eng. | 2917* | Calamagrostis Canadensis, Beauv. | | var. Americana, Hooker. |
| 2343 | var. paniculatus, Eng. | 2583 | Stipa occidentalis, Thurber. | 2942* | Asplenium Filix-femina, Bernh. |
| 2562 | Mertensianus, Meyer. | 2553 | Sibirica, L. | 2208 | Aspidium rigidum, Swartz. |
| 2499 | Scirpus sylvaticus, L., var. | 2920 | viridula, Trin. | | var. argutum, Eaton. |
| | dignus, Boeck. | 2921* | Danthonia Californica, Bol., var. | 2207 | munitum, Kaulf. |
| 2906* | Hemicarpha subsquarrosa, Nees. | 2922 | var. unispicata, Thurber. | 2941 | aculeatum, Swartz, var. |
| 2905* | Eleocharis acicularis, R. Br. | 2923 | Trisetum subspicatum, Beauv. | | angulare, Braun. |
| 2612 | palustris, R. Br. | | var. | 2901* | var. scopulinum, Eaton. |
| 2904* | rostellata, Torrey. | 2518 | var. muticum, Bolander. | 2940* | Cystopteris fragilis, Bernh. |
| | var. occidentalis, Watson. | | (T. Wolfii, Vasey.) | 2311 | Chara — |

Nevada Plants.

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|-------|---|-------|--|-------|--|
| 2178* | <i>Aquilegia formosa</i> , Fischer. | 2189* | <i>Sedum Rhodiola</i> , DC. | 2996* | <i>Chaenactis stevioides</i> , H. & A. |
| 2179* | <i>Arabis platysperma</i> , Gray. | 2192* | <i>Eupatorium occidentale</i> , Hooker. | 3002* | <i>carphoclinia</i> , Gray. |
| 2997* | <i>Sisymbrium canescens</i> , Nutt.
var. (No. 98, Watson.) | 2191 | <i>Aplopappus nanus</i> , Eaton. | 2951* | <i>Malacothryx Torreyi</i> , Gray. |
| 2998* | <i>Caulanthus procerus</i> , Watson. | 2196 | <i>tenuicaulis</i> , Eaton. | 2952* | <i>Stephanomeria exigua</i> , Nutt. |
| 3001* | <i>Lepidium flavum</i> , Torrey. | 2197* | <i>lanceolatus</i> , T. & G., var.
Vaseyi, Parry? | 2989* | <i>Glyptopleura marginata</i> , Eaton. |
| 3003* | <i>montanum</i> , Nutt. | 2195 | <i>uniflorus</i> , T. & G. | 2953 | <i>Lygodesmia spinosa</i> , Nutt. |
| 2180 | <i>Cleomella parviflora</i> , Gray. | 2190 | <i>Bigelovia Douglasii</i> , Gray, var.
<i>stenophylla</i> , Gray. | 2954* | <i>Phacelia sericea</i> , Gray, var. |
| 3000 | <i>plocasperma</i> , Watson. | | | 2955* | <i>Gilia pungens</i> , Benth. |
| 2181* | <i>Stellaria Kingii</i> , Watson. | 2194 | <i>var. puberula</i> , Gray. | 3006* | <i>var. squarrosa</i> , Gray. |
| 2182 | <i>Sidalcea malvaeflora</i> , Gray. | 2192 | <i>n. sp. R. 116</i> | 2956* | <i>floccosa</i> , Gray. |
| 2991* | <i>Lupinus uncialis</i> , Watson. | 2198 | <i>Erigeron asperugineus</i> , Gray. | 2957 | <i>Gentiana serrata</i> , Gunner. |
| 2990* | <i>diphysus</i> , Gray. | 3007* | <i>Townsendia scapigera</i> , Eaton. | 2961* | <i>Erythraea Nuttallii</i> , Watson. |
| 2183 | <i>Astragalus filipes</i> , Torrey. | 2199* | <i>Aster arenarioides</i> , Eaton. | 2993* | <i>Asclepias Mexicana</i> , Cav. |
| 2184 | <i>multiflorus</i> , Gray. | 2200* | <i>var. (pubescent.)</i> | 2994* | <i>Psathyrotes annua</i> , Gray. |
| 3004* | <i>Geyerii</i> , Gray. | 2992* | <i>Layia heterotricha</i> , H. & A. | 2958* | <i>Pentstemon glaber</i> , Pursh., var.
(puberulent, anthers glabrous.) |
| 2185 | <i>Dalea polyadenia</i> , Torrey. | 2949 | <i>Helianthus Nuttallii</i> , T. & G.
(very slender form.) | 2959* | <i>Watsoni</i> , Gray. |
| 2186* | <i>Trifolium n. sp. (?) monanthum</i> | | | 2960* | <i>confertus</i> , Dougl., var.
<i>caeruleo-purpureus</i> , Gray. |
| 2187 | <i>Ivesia Kingii</i> , Watson. | 2948* | <i>Actinella Richardsonii</i> , Nutt.,
var. <i>canescens</i> , Eaton. | 2965* | <i>Mimulus primuloides</i> , Benth. |
| 2188* | <i>Heuchera cylindrica</i> , Dougl.
var. <i>alpina</i> , Watson. | 2950 | <i>Tetradymia glabrata</i> , T. & G. | 2999* | <i>Veronica peregrina</i> , L. |

Artemisia aculeata

- 2962* *Castilleja linoides*, Gray.
 2964* *Orthocarpus luteus*, Nutt.
 2963 *Cordylanthus ramosus*, Nutt.
 2987* *Abronia turbinata*, Torrey.
 2966* *Eriogonum vinineum*, Dougl.
 2967* Baileyi, Watson.
 2968 microthecum, Nutt.
 2969* Plumatella, Dur. & Hilg.
 2970* nudum, Dougl., var.
 oblongifolium, Watson.
 2988* *Oxytheca dendroidea*, Nutt.
 2995* *Chorizanthe Watsoni*, T. & G.
 2971* *Polygonum polymorphum*, Ledeb.,
 var.
 2972* *Parietaria Pennsylvanica*, Muhl.
- 2973* *Euphorbia ocellata*, Dur. & Hilg.
 2974* *Salix chlorophylla*, And. (?)
 2975* *Pinus flexilis*, James.
 2976* *Iris Missouriensis*, Nutt.
 2977* *Lemna Valdiviana*, Philippi.
 2979 *Habenaria leucostachys*, Watson.
 2978 *Allium validum*, Watson.
 2980 *Carex vulgaris*, Fries, var.
 alpina, Boott.
 2981* luzulaefolia, Boott.
 2981* *Vilfa cuspidata*, Torrey.
 2982 *Melica stricta*, Bolander.
 2985* *Aspidium aculeatum*, Swartz, var.
 scopulinum, Eaton.

Additions to Utah List.

- 1681 *Myosurus aristatus*, Benth.
 2136 *Ranunculus repens*, L.
 1841 *Thelypodium sagittatum*, Endl.
 1355 *Erysimum asperum*, DC.
 3137* *Stellaria longipes*, Goldie.
 2123 *Arenaria Fendleri*, Gray.
 2139 *Sidalcea candida*, Gray.
 2140 *Lupinus holosericeus*, Nutt.,
 var. *Utahensis*, Watson.
 2141 aridus, Dougl., var.
 Utahensis, Watson.
 2169 leucophyllus, Lindley.
 2142* *Astragalus glareosus*, Dougl.
 1467 hypoglottis, L.
 2143 *Brickellia microphylla*, Gray.
 2144 *Erigeron glabellus*, Nutt., var.
 1984 *Balsamorhiza macrophylla*, Nutt.
 2145 *Artemisia frigida*, Willd.
 1470 *Rigiopappus leptocladus*, Gray.
 2146 *Gentiana affinis*, Smith.
 3008* heterosepala, Eng.
 2147* *Gilia Breweri*, Gray. (?)
- 2031 *Echinosperrum Kedowskii*, Lehm.,
 var. *cupulatum*, Gray.
 2032 *Eritrichium Californicum*, DC.
 2148 *Mertensia alpina*, Don.
 (brevistyla, Watson.)
 2151 *Pentstemon glaber*, Pursh., var.
 Utahensis, Watson.
 2149 *Orthocarpus luteus*, Nutt.
 2150* *Cordylanthus ramosus*, Nutt.
 2069 *Shepherdia argentea*, Nutt.
 2152* *Salix alba*, L., var. *vitellina*, Gray.
 2153* *Pinus flexilis*, James.
 2156 *Brodiaea Douglasii*, Watson.
 2155 *Camassia esculenta*, Lindley.
 2091 *Zygadenus venenosus*, Watson.
 2154 *Carex filiformis*, L., var.
 latifolia, Boeck.
 2157 *Aira danthonioides*, Trin.
 3009 *Aspidium aculeatum*, Swartz,
 var. *scopulinum*, Eaton.
 2166 *Woodsia Oregana*, Eaton.

☞ The FUNGI and ALGÆ will occupy separate lists.

Correspondents who are unknown to me should invariably send the money with order, or send satisfactory references that the plants will be paid for when received.

TERMS: Cash with the order.

CHANGES IN UTAH LIST.

Undetermined Species.—1648=*Sisymbrium deflexum*, Nuttall; 1623=*Eriogonum chamæroides*, Gray; 1691=*Cymopterus Fendleri*, Gray; 1894=*Kelloggella galioides*, Torrey, the true form, Torrey did not describe it correctly. 1973=*Aplopappus aculis*, Gray; 1974=*Gymnoloma multiflora*; 1982=*Pilago Arizonica*, Gray; 1756=*Senecio integerrimus*, Hooker; 2113=*Sonchus arvensis*; 1659=*Gilia scopulorum*, Jones, n. sp.; 1651=*inconspicua* var. *sinuata*, Gray; 1641=*Eritrichium fulvum*, A. DC.; 1838=*Pentstemon Kingii*, Watson; 1815=*Eriogonum puberulum*, Watson; 2071=*Monolopia pusilla*; 2035=*Brodiaea capitata*, Benth.

Errors of our Authorities.—UTAH LIST.—

Zygadenus Nuttallii=*venenosus*, Watson; *Erythronium grand.*=the var. *minus*; *Veratrum album*=*Californicum*, Esch.; *Melica parvifolia*=*bulbosa*; *Glyceria distans* and *maritima*=*Atropis distans*; *Lemna polyrrhiza*=*Spirodelia* —; *Scirpus microcarpus*=*sylvaticus*, Presl, var. *dignus*; *Poa Kingii*, Watson=*glumaria*; *Elymus triticoides*=*condens.* var. *trit.*; *Delphinium elatum*, var. *D. occidentale*, Watson; *Corydalis Caseana*=*Brandegei*, Watson, n. sp.; *Silene acutis*=*montana*, Watson, n. sp.; *Trisetum* species are near to var. *muticum*.

Errors.—1701*=*Ranunculus nivalis*, v. Eschscholtzii, Watson; 1821=*Lepidium integrifolium*, Nuttall; 1818=*Arenaria congesta*, v. *subcongesta*, Watson; 1630=*Astragalus Nuttallianus*, Fries Watson, but I do not agree. 1964=*Peucedanum Parryi*, Watson; 2048*=*Nemoladus ramosissimus*, Nuttall; 1735=*Eriogonum microthecum*, Nuttall, typ. f.; 2070=*E. subreniforme*, Watson; *Stipa speciosa* is of Trin. & Rup., not Torrey; *Ribes leptanthum*, var. *typ. f.*